

## BIOGRAPHICAL SKETCH

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NAME Fan Fan, M.D., M.S.		POSITION TITLE Instructor	
eRA COMMONS USER NAME (credential, e.g., agency login) FFAN14			
EDUCATION/TRAINING ( <i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i> )			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Qingdao Medical College, Qingdao, China	M.D.	1989	Medicine
Medical University of South Carolina, Charleston, SC	Postdoc	2001	Immunology/Mol. Biology
University of Mississippi Medical Center, Jackson, MS	M.S.	2013	Biomed Sci/Pharmacology

### Positions and Honors:

#### Positions and Employment:

09/1999-01/2000	Research Assistant, Department of Medicine, Medical University of South Carolina (MUSC).
01/2000-07/2001	Postdoctoral Fellow, Department of Microbiology and Immunology, MUSC.
07/2001-05/2005	Research Associate, Departments of Neurology and Pharmacology, MUSC.
10/2005-06/2010	Research Associate, Research Scientist, Department of Physiology & Medicine, Medical College of Wisconsin (MCW)
07/2010-02/2015	Senior Scientist, Department of Pharmacology & Toxicology, University of Mississippi Medical Center (UMC).
03/2015-Present	Instructor, Department of Pharmacology & Toxicology, UMC.

#### Memberships:

American Physiological Society  
American Heart Association

#### Academic Activities:

Editorial Boards: MOJ Toxicology  
Invited Reviewer: PLOS one, AJP Regulatory, Physiological Reports

### Selected Peer Reviewed Publications:

- 1) Rubinchik S, Wang D, Yu H, **Fan F**, Luo M, Norris JS, Dong JY. A complex adenovirus vector that delivers FAS-GFP with combined prostate-specific and tetracycline-regulated expression. *Mol Ther*. 2001 Nov; 4(5): 416-26. PMID: 11708878.
- 2) Bhat NR and **Fan F**. Adenovirus infection induces microglial activation: involvement of mitogen-activated protein kinase pathways. *Brain Research*. 2002; 948: 93-101. PMID: 12383959.
- 3) Bhat NR, Shen Q, **Fan F**. TAK1-mediated induction of nitric oxide synthase gene expression in glial cells. *J. Neurochem*. 2003 Oct; 87(1): 238-47. PMID: 12969270.
- 4) Pawate S, Shen Q, **Fan F**, Bhat NR. Redox regulation of glia inflammatory response to Lipopolysaccharide and Interferon- $\gamma$ . *Journal of Neuroscience Research*. 2004; 77:540-551. PMID: 15264224.
- 5) Yanes LL, Lima R, Moulana M, Romero DG, Yuan K, Ryan MJ, Baker R, Zhang H, **Fan F**, Davis DD, Roman RJ, Reckelhoff JF. Postmenopausal hypertension: role of 20-HETE. *Am J Physiol Regul Integr Comp Physiol*. 2011 Jun; 300(6):R1543-8. PMID: 21474427; PMCID: PMC3119152.
- 6) Williams JM, **Fan F**, Murphy SR, Schreck C, Lazar J, Jacob HJ, Roman RJ. Role of 20-HETE in the

antihypertensive effect of transfer of chromosome 5 from Brown Norway to Dahl Salt-sensitive rats. Am J Physiol Regul Integr Comp Physiol. 2012; 302(10):R1209-R1218. PMID: PMC33623151.

- 7) Burke M, Pabbidi M, **Fan F**, Ge Y, Liu R, Williams JM, Sarkis A, Lazar J, Jacob HJ and Roman RJ. Genetic Basis of the Impaired Renal Myogenic Response in FHH Rats. Am J Physiol Renal Physiol. 2013 Mar 1;304(5):F565-77. PMID: 23220727; PMID: PMC 3602705. Angiotensin II in Renal Microvessels. PLoS One. 2013 Dec 4; 8 (12), e82482. PMID: 24324797; PMID:PMC3853207
- 8) Bi D, Toyama K, Takai J, Lemaitre V, **Fan F**, Wulff H, Gutterman DD, Park F, Miura H. Intermediate-conductance Calcium-activated Potassium Channel KCa3.1 regulates the proliferation of human coronary artery smooth muscle cells. J Biological Chemistry 2013; 288 (22), 15843-15853. PMID: 23609438; PMID: PMC3668741
- 9) **Fan F**, Sun CW, Maier KG, Williams JM, Pabbidi MR, Didion SP, Falck JR, Zhuo J and Roman RJ. 20-Hydroxyeicosatetraenoic Acid Mediates K<sup>+</sup> Channel Inhibitory and Vasoconstrictor Responses to Angiotensin II in Renal Microvessels. PLoS One. 2013 Dec 4; 8 (12), e82482. PMID: 24324797; PMID:PMC385320
- 10)Pabbidi MR, Mazur O, **Fan F**, Farley JM, Gebremedhin D, Harder DR and Roman RJ. Enhanced large conductance K<sup>+</sup> channel (BK) activity contributes to the impaired myogenic response in the cerebral vasculature of Fawn Hooded Hypertensive rats. Am J Physiol Heart Circ Physiol. 2014 Apr 1;306(7):H989-H1000.PMID:24464756, PMID:PMC 3962634
- 11)Ge Y, Murphy SR, **Fan F**, Williams JM, Falck J, Liu R, Roman RJ. Role of 20-HETE in the impaired myogenic and TGF responses of the Af-Art of Dahl Salt-sensitive rats. Am J Physiol Renal Physiol. 2014 Sep 1;307(5):F509-15. PMID: 25007877, PMID:PMC 4154113
- 12)Warrington JP, **Fan F**, Murphy SR, Roman RJ, Drummond HA, Granger JP, Ryan MJ. Placental ischemia in pregnant rats impairs cerebral blood flow autoregulation and increases blood-brain barrier permeability. Physiol Rep. 2014 Aug 28;2(8). PMID: 25168877, PMID:PMC 4246592
- 13)**Fan F**, Guerts A, Pabbidi MR, Harder DR, Jacob H, Roman RJ. Zinc-finger nuclease knockout of dual-specificity protein phosphatase-5 enhances myogenic response in autoregulation of cerebral blood flow in FHH.1<sup>BN</sup> rats. PLoS One. 2014 Nov 14;9(11):e112878. PMID: 25397684, PMID: PMC4232417
- 14)**Fan F**, Geurts AR, Murphy SR, Pabbidi MR, Jacob H and Roman RJ. Impaired myogenic response and autoregulation of cerebral blood flow is rescued in CYP4A1 transgenic Dahl salt-sensitive rat. Am J Physiol Regul Integr Comp Physiol. 2014 Dec 24. PMID: 25540098, [Epub ahead of print] PMID: PMC: in progress
- 15)**Fan F**, Muroya Y, and Roman RJ. Cytochrome p450 eicosanoids in hypertension and renal disease. Curr Opin Nephrol Hypertens. 2015 Jan;24(1):37-46. PMID: 25427230, PMID: PMC4260681

## Research Support:

### Active:

**5 R37 HL036279-30**

**(Roman, PI)**

**04/01/2005-12/31/2016**

Title: 20-HETE-TGF-beta in Hypertension-Induced Renal Injury

Role: Co-investigator, 30% effort.

**1 R01 DK104184-01**

**(Roman, PI)**

**09/01/2014-08/31/2018**

Title: Renal microcirculation and hypertension induced renal injury

Role: Co-investigator, 60% effort.

